

### **Product Data**



Bryant's Air Conditioners with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 116B has been designed utilizing Bryant's Puron refrigerant. The environmentally sound refrigerant allows you to make a responsible decision in the protection of the earth's ozone layer.

This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. Refer to the combination ratings in the Product Data for system combinations that meet Energy Star® guidelines.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

### INDUSTRY LEADING FEATURES / BENEFITS

### **Efficiency**

- 14 16.5 SEER/11.0- 13.5 EER
- Microtube Technology<sup>™</sup> refrigeration system
- Indoor air quality accessories available

### Sound

- Sound level as low as 76 dBA
- Sound level as low as 74 dBA with accessory sound blanket

### **Comfort**

 System supports Edge<sup>®</sup> Thermidistat<sup>™</sup> or standard thermostat controls

### Reliability

- Puron® refrigerant environmentally sound, won't deplete the ozone layer and low lifetime servce cost.
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Filter drier
- Balanced refrigeration system for maximum reliability

### **Durability**

DuraGuard™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard standard
- Baked-on, complete outer coverage, powder paint

### **Applications**

- Long-line up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient (down to -20°F/-28.9°C)) with accessory kit

### MODEL NUMBER NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	14
N	N	N	Α	A/N	N	N	N	N	A/N	A/N	N	Α
1	1	6	В	N	Α	0	3	6	0	0	0	0
Prod- uct Family	Tier	SEER	Major Series	Voltage	Grille Variations		Cooling Ca	apacity	Open	Open	Open	Series
1=AC	1= Legacy RNC	6=16 SEER	B=Puron	N= 208-230-1 or 208/230-1	A = Dense				0=Not Defined	0=Not Defined	0=Not Defined	





Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program For verification of certification for individual products, go to www.ahridirectory.org.







This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.

### STANDARD FEATURES

Feature	018	024	030	036	042	048 / 049	060 / 061
Puron Refrigerant	Х	Х	Х	Х	Х	Х	Х
Maximum SEER *	16.0	16.0	16.5	16.5	16.0	16.0	16.0
Scroll Compressor	Х	Х	Х	Х	Х	Х	Х
Field Installed Filter Drier	Х	Х	Х	Х	Х	Х	Х
Front Seating Service Valves	X	Х	Х	Х	Х	Х	Х
Internal Pressure Relief Valve	X	Х	Х	Х	Х	Х	Х
Internal Thermal Overload	Х	Х	Х	Х	Х	Х	Х
Long Line capability	Х	Х	Х	Х	Х	Х	Х
Low Ambient capability with Kit	Х	Х	Х	Х	Х	Х	Х
Dense Grille	Х	Х	Х	Х	Х	Х	Х

<sup>\*</sup> With approved combinations

### PHYSICAL DATA

UNIT SIZE-VOLTAGE, SERIES	018-B	024-A	030-A	036-A	042-A	048-B	049-A	060-A	061 – A	
On a matter of Materials A. Ha. (Lon)	125	147	153	165	213	264	231	272	272	
Operating Weight Ib (kg)	(56.7)	(66.5)	(69.3)	(74.8)	(96.4)	(119.7)	(104.8)	(123.4)	(123.4)	
01:	154	183	188	204	254	317	269	310	310	
Shipping Weight lb (kg)	(69.9)	(82.8)	(85.2)	(92.5)	(115.2)	(143.8)	(222.0)	(140.6)	(140.6)	
Compressor Type					Scroll					
REFRIGERANT				Puror	n® (R-410A)					
Control		TXV (Puron® Hard Shutoff)								
Chargo Ib (kg)	4.60	6.00	6.81	7.00	8.62	13.0	9.00	14.50	14.50	
Charge Ib (kg)	(2.09)	(2.72)	(3.09)	(3.18)	(3.91)	(5.90)	(4.08)	(6.58)	(6.58)	
COND FAN		•	•	Propeller	Type, Direct [	Drive	•	•		
Air Discharge				Vertica	al				Vertical	
Air Qty (CFM)	1881	2614	2614	3223	3810	4046	4046	4046	4046	
Motor HP	1/12	1/10	1/10	1/12	1/5	1/4	1/4	1/4	1/4	
Motor RPM	1100	1100	1100	800	800	800	800	800	800	
COND COIL	•	•	•		•		•			
Face Area (Sq ft)	11.50	15.10	17.20	17.60	25.15	25.15	25.15	30.15	30.15	
Fins per In.	25	25	25	25	25	20	20	20	20	
Rows	1	1	1	1	1	2	1	2	2	
Circuits	3	4	4	4	6	7	7	8	8	
VALVE CONNECT. (In. ID)	•	•	•		•		•		•	
Vapor	3/4	3/4	3/4	7/8	7/8	7/8	7/8	7/8	7/8	
Liquid	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	3/8	
REFRIGERANT TUBES (In. OD)	•	•	•		•	•	•	•		
Rated Vapor*	3/4 7/8 1 - 1/8								1/8	
Max Liquid Line †		3/8								
* Units are rated with 25 ft (7.6 m) of	lineset length S	neset length. See Vanor Line Sizing and Cooling Canacity Loss table when using other sizes and lengths of lineset								

<sup>\*</sup> Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

Note: See unit Installation Instruction for proper installation.

X = Standard

<sup>†</sup> See Liquid Line Sizing For Cooling Only Systems with Puron Refrigerant tables.

### REFRIGERANT PIPING LENGTH LIMITATIONS

### Liquid Line Sizing and Maximum Total Equivalent Lengths<sup>†</sup> for Cooling Only Systems with Puron® Refrigerant:

The maximum allowable length of a residential split system depends on the liquid line diameter and vertical separation between indoor and outdoor units.

See Table below for liquid line sizing and maximum lengths:

### Maximum Total Equivalent Length Outdoor Unit BELOW Indoor Unit

Size	Liquid Line	Liquid Line		AC with Pu	ron Refriger		n Total Equiva		Outdoor unit	t BELOW Indo	or
OIZC	Connection	Diam. w/ TXV	0-5 (0-1.5)	6-10 (1.8-3.0)	11-20 (3.4-6.1)	21-30 (6.4-9.1)	31-40 (9.4-12.2)	41-50 (12.5-15.2)	51-60 (15.5-18.3)	61-70 (18.6-21.3)	71-80 (21.6-24.4)
18000		1/4	150	150	125	100	100	75			
AC with	3/8	5/16	250*	250*	250*	250*	250*	250*	250*	225*	150
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
24000		1/4	75	75	75	50	50				
AC with	3/8	5/16	250*	250*	250*	250*	250*	225*	175	125	100
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
30000		1/4	30								
AC with	3/8	5/16	175	225*	200	175	125	100	75		
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*	250*
36000 AC with	0/0	5/16	175	150	150	100	100	100	75		
Puron	3/8	3//8	250*	250*	250*	250*	250*	250*	250*	250*	250*
42000		5/16	125	100	100	75	75	50			
AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*	150
48000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	230	160	
49000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	230	160	
60000 AC with Puron	3/8	3/8	250*	250*	250*	225*	190	150	110		
61000 AC with Puron	3/8	3/8	250*	250*	250*	225*	190	150	110		

<sup>\*</sup> Maximum actual length not to exceed 200 ft (61 m)

### Maximum Total Equivalent Length Outdoor Unit ABOVE Indoor Unit

		Liquid	AC w	ith Puron Re	frigerant Maxii			n†: Outdoor u	nit ABOVE Inc	loor
Size	Liquid Line	Line				Vertical Sepa				
	Connection	Diam. w/ TXV	25 (7.6)	26-50 (7.9-15.2)	51-75 (15.5-22.9)	76-100 (23.2-30.5)	101-125 (30.8-38.1)	126-150 (38.4-45.7)	151 – 175 (46.0 – 53.3)	176-200 (53.6-61.0)
18000		1/4	175	250*	250*	250*	250*	250*	250*	250*
AC with	3/8	5/16	250*	250*	250*	250*	250*	250*	250*	250*
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*
24000		1/4	100	125	175	200	225*	250*	250*	250*
AC with	3/8	5/16	250*	250*	250*	250*	250*	250*	250*	250*
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*
30000		1/4	30							
AC with	3/8	5/16	250*	250*	250*	250*	250*	250*	250*	250*
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*
36000 AC with	3/8	5/16	225*	250*	250*	250*	250*	250*	250*	250*
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*
42000 AC with	3/8	5/16	175	200	250*	250*	250*	250*	250*	250*
Puron		3/8	250*	250*	250*	250*	250*	250*	250*	250*
48000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*
49000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*
60000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*
61000 AC with Puron	3/8	3/8	250*	250*	250*	250*	250*	250*	250*	250*

<sup>\*</sup> Maximum actual length not to exceed 200 ft (61 m)

<sup>†</sup> Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

<sup>- - =</sup> outside acceptable range

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<sup>-- =</sup> outside acceptable range

### REFRIGERANT CHARGE ADJUSTMENTS

Liquid Line Size	Puron Charge oz/ft
3/8	0.60 (Factory charge for lineset = 9 oz)
5/16	0.40
1/4	0.27

Units are factory charged for 15 ft (4.6 m) of 3/8" liquid line. The factory charge for 3/8" lineset 9 oz. When using other length or diameter liquid lines, charge adjustments are required per the chart above.

### **Charging Formula:**

[(Lineset oz/ft x total length) – (factory charge for lineset)] = charge adjustment

**Example 1:** System has 15 ft of line set using existing 1/4" liquid line. What charge adjustment is required?

Formula: (.27 oz/ft x 15ft) - (9 oz) = (-4.95) oz.

Net result is to remove 4.95 oz of refrigerant from the system

**Example 2:** System has 45 ft of existing 5/16" liquid line. What is the charge adjustment?

Formula: (.40 oz/ft. x 45 ft) - (9 oz.) = 9 oz.Net result is to add 9 oz of refrigerant to the system

### LONG LINE APPLICATIONS

An application is considered Long Line, when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. See Accessory Usage Guideline table for required accessories. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Air Conditioner systems, the chart below shows when an application is considered Long Line.

### AC WITH PURON® REFRIGERANT LONG LINE DESCRIPTION ft (m)

Beyond these lengths, long line accessories are required

Liquid Line Size	Units On Same Level	Outdoor Below Indoor	Outdoor Above Indoor
1/4	No accessories needed within allowed lengths	No accessories needed within allowed lengths	175 (53.3)
5/16	120 (36.6)	50 (15.2)	120 (36.6)
3/8	80 (24.4)	35 (10.7)	80 (24.4)

Note: See Long Line Guideline for details

### VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for AC systems with Puron refrigerant:

	Diameters (In. OD)	Diameters (In. OD)	00 -0	Cooling Capacity Loss (%) Total Equivalent Line Length ft. (m)										
18000			26-50 (7.9-15.2)	51 – 80 (15.5 – 24.4)	81 – 100 (24.7 – 30.5)	101 <b>–</b> 125 (30.8 <b>–</b> 38.1)	126-150 (38.4-45.7)	151 <b>–</b> 175 (46.0 <b>–</b> 53.3)	176-200 (53.6-61.0)	201 <b>-</b> 225 (61.3 <b>-</b> 68.6)	226-250 (68.9-76.2)			
		1/2	1	2	3	5	6	7	8	9	11			
1 Stage AC with	3/8	5/8	0	1	1	1	2	2	2	3	3			
Puron		3/4	0	0	0	0	1	1	1	1	1			
24000		5/8	0	1	2	2	3	3	4	5	5			
1 Stage AC with	3/8	3/4	0	0	1	1	1	1	1	2	2			
Puron		7/8	0	0	0	0	0	1	1	1	1			
30000		5/8	1	2	3	3	4	5	6	7	8			
1 Stage AC with	3/8	3/4	0	0	1	1	1	2	2	2	3			
Puron		7/8	0	0	0	0	1	1	1	1	1			
36000		5/8	1	2	4	5	6	8	9	10	12			
1 Stage AC with	3/8	3/4	0	1	1	2	2	3	3	4	4			
Puron		7/8	0	0	0	1	1	1	1	2	2			
42000		3/4	0	1	2	2	3	4	4	5	6			
1 Stage AC with	3/8	7/8	0	0	1	1	1	2	2	2	3			
Puron		1 1/8	0	0	0	0	0	0	0	0	0			
48000, 49000		3/4	0	1	2	3	4	5	5	6	7			
1 Stage	3/8	7/8	0	0	1	1	2	2	2	3	3			
AC with Puron		1 1/8	0	0	0	0	0	0	0	1	1			
60000,		3/4	1	2	4	5	6	7	9	10	11			
61000 1 Stage	3/8	7/8	0	1	2	2	3	4	4	5	5			
AC with Puron		1 1/8	0	0	0	1	1	1	1	1	1			

Applications in this area may be long line and may have height restrictions. See the Residential Piping and Long Line Guideline.

### **ACCESSORY THERMOSTATS**

PART NUMBER	PROGRAM	GAS	ELECTRIC	HEAT	COOL
T2-PAC01	5-2 Day	√	V	1	1
T2-NAC01	NP	V	V	1	1
T2SNAC01	NP	√	√	1	1

THERMOSTAT ACCESSORIES										
PART NUMBER BRIEF DESCRIPTION THERMOSTATS USED WITH										
TSTATXXCNV10	Thermostat Conversion Kit (4 to 5 wire) - 10 pack	All Bryant® branded thermostats								
TX-LBP01	Large Decorative Backplate	T6-Pxx, T6-Nxx, and T2-Pxx								
TX-MBP01	Medium Decorative Backplate	T2-Nxx and T1-Pxx								

### **ACCESSORIES**

KIT NUMBER	DESCRIPTION				Unit	: Sizes - Se	eries			
KIT NUMBER	DESCRIPTION	018-B	024-A	030-A	036-A	042-A	048-B	049-A	060-A	061 – A
KAAFT0101AAA	FREEZE THERMOSTAT	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAATD0101TDR	TIME DELAY RELAY	Х	Х	Х	Х	Х	Х	Х	Х	Х
KSALA0301410	LOW AMBIENT PSW	Х	Х	Х	Х	Х	Х	Х	Х	Х
KSALA0601AAA†	MOTORMASTER 230V	Х	Х	Х	Х	Х	Х	Х	Х	Х
HC32GE234	MOTOR FAN BALL BEARING	Х								
HC34GE240	MOTOR FAN BALL BEARING		Х	Х						
HC32GE229	MOTOR FAN BALL BEARING				Х					
HC38GE228	MOTOR FAN BALL BEARING					Х				
HC40GE228	MOTOR FAN BALL BEARING						Х	Х	Х	Х
KSAHS1701AAA	HARD START (CAP / RELAY)	Х	Х	Х	Х	Х	Х	Х	Х	Х
KSACY0101AAA	CYCLE PROTECTOR	Х	Х	Х	Х	Х	Х	Х	Х	Х
KSASF0101AAA	SUPPORT FEET	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAACS0201PTC	START ASSIST PTC	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAALS0201LLS	LIQUID LINE SOLENOID	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAAWS0101AAA	WINTER START	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAACH1701AAA	CRANKCASE HTR	Х	Х	Х	Х					
KAACH1601AAA	CRANKCASE HTR					Х	S	S	S	S
KSATX0201PUR	TXV PURON HSO	Х	Х	Х						
KSATX0301PUR	TXV PURON HSO				Х					
KSATX0401PUR	TXV PURON HSO					Х		Х		
KSATX0501PUR	TXV PURON HSO						Х		Х	Х
KSASH0601COP	SOUND HOOD	Х	Х	Х	Х			Х		
KSASH2101COP	SOUND HOOD					Х	Х		Х	Х
KAALP0401PUR	LOW PRESSURE SWITCH	Х	Х	Х	Х	Х	Х	Х	Х	Х
KAAHI0501PUR	HIGH PRESSURE SWITCH	Х	Х	Х	Х	Х	Х	Х	Х	Х

<sup>†</sup> Required accessories include ball bearing fan motor, compressor start assist (CAP / Relay), crankcase heater, evaporator freeze stat, hard shut – off TXV. X = Accessory / S – Standard

### ACCESSORY USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBI- ENT COOLING APPLICATIONS (Below 55°F/12.8°C)	REQUIRED FOR LONG LINE APPLICATIONS* (Over 80 ft./24.38 m)	REQUIRED FOR SEA COAST APPLICATIONS (Within 2 miles/3.22 km)
Ball Bearing Fan Motor	Yes†	No	No
Compressor Start Assist Capacitor and Relay	Yes	Yes	No
Crankcase Heater	Yes	Yes	No
Evaporator Freeze Thermostat	Yes	No	No
Hard Shut-Off TXV	Yes	Yes	Yes
Liquid Line Solenoid Valve	No	No	No
Motor Master <sup>®</sup> Control or Low–ambient Pressure Switch	Yes	No	No
Support Feet	Recommended	No	Recommended
Winter Start Control	Yes	No	No

For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Split-System Longline Application Guideline.

### Accessory Description and Usage (Listed Alphabetically)

### 1. Ball-Bearing Fan Motor

A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.

Usage Guideline:

Required on all units when MotorMaster® is used.

### 2. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a "hard" boost to compressor motor at each start up.

Usage Guideline:

Required for reciprocating compressors in the following applications:

Long line

Low ambient cooling

Hard shut off expansion valve on indoor coil

Liquid line solenoid on indoor coil

Required for single-phase scroll compressors in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

### 3. Compressor Start Assist — PTC Type

Solid state electrical device which gives a "soft" boost to the compressor at each start-up.

Usage Guideline:

Suggested in installations with marginal power supply.

### 4. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

### 5. Cycle Protector

The cycle protector is designed to prevent compressor short cycling. This control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including power outage, protector control trip, thermostat jiggling, or normal cycling.

### 6. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

### 7. Low-Ambient Pressure Switch Kit

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to  $0^{\circ}F$  (-18°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch or MotorMaster® Low-Ambient Controller must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

### 8. MotorMaster® Low-Ambient Controller

A fan-speed control device activated by a temperature sensor, designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to  $-20^{\circ}F$  ( $-28.9^{\circ}C$ ), it maintains condensing temperature at  $100^{\circ}F \pm 10^{\circ}F$  ( $37.8^{\circ}C \pm 5.5^{\circ}C$ ).

Usage Guideline:

A MotorMaster® Low Ambient Controller or Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

Suggested for all commercial applications.

### 9. Outdoor Air Temperature Sensor

Designed for use with Bryant Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also

is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Bryant thermostats listed in this publication.

<sup>†</sup> Required for Low-Ambient Controller (full modulation feature) MotorMaster® Control.

### Accessory Description and Usage (Listed Alphabetically) (Continued)

### 10. Sound Hood

Wraparound sound reducing cover for the compressor. Reduces the sound level by about 2 dBA.

Usage Guideline:

Suggested when unit is installed closer than 15 ft (4.57 m) to quiet areas, bedrooms, etc.

Suggested when unit is installed between two houses less than 10 ft (3.05 m) apart.

### 11. Support Feet

Four stick-on plastic feet that raise the unit 4 in. (101.6 mm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

For improved sound ratings.

### 12. Thermostatic Expansion Valve (TXV)

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Kit includes valve, adapter tubes, and external equalizer tube. Hard shut off types are available.

**NOTE**: When using a hard shut off TXV with single phase reciprocating compressors, a Compressor Start Assist Capacitor and Relay is required.

Usage Guideline:

Required to achieve AHRI ratings in certain equipment

combinations. Refer to combination ratings.

Hard shut off TXV or LLS required in air conditioner long line applications.

Required for use on all zoning systems.

### 13. Time-Delay Relay

An SPST delay relay which briefly continues operation of indoor blower motor to provide additional cooling after the compressor cycles off.

**NOTE**: Most indoor unit controls include this feature. For those that do not, use the guideline below.

Usage Guideline:

For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to AHRI Unitary Directory.

### 14. Winter Start Control

This control is designed to alleviate nuisance opening of the low-pressure switch by bypassing it for the first 3 minutes of operation.

### **ELECTRICAL DATA**

UNIT SIZE	V/PH	OPER	VOLTS*	сом	PR	FAN	МСА	MIN WIRE	MIN WIRE	MAX LENGTH	MAX LENGTH	MAX FUSE**
UNIT SIZE	V/PH	MAX	MIN	LRA	RLA	FLA	IVICA	SIZE†	SIZE† 75° C	ft. (m)‡ 60° C	ft. (m)‡ 75° C	or CKT BRK AMPS
018-B				48.0	9.0	0.50	11.8	14	14	67 (20.4)	64 (19.5)	20
024-A				58.3	13.5	0.75	17.7	14	14	46 (14.0)	43 (131)	25
030-A				64.0	12.8	0.75	16.8	14	14	44 (13.4)	41 (12.5)	25
036-A				77.0	14.1	0.50	18.1	12	12	57 (17.4)	54 (16.5)	30
042-A	208/230/1 60	253	197	112.0	17.9	1.20	23.6	10	10	85 (25.9)	81 (24.7)	40
048-B				109.0	19.9	1.20	26.1	10	10	70 (21.3)	67 (20.4)	40
049-A				117.0	21.8	1.20	26.1	10	10	70 (21.3)	67 (20.4)	40
060-A				135.0	21.4	1.20	28.0	8	10	91 (27.7)	56 (17.1)	40
061 – A				134.0	25.0	1.20	32.5	8	10	94 (28.7)	58 (17.7)	50

<sup>\*</sup> Permissible limits of the voltage range at which the unit will operate satisfactorily

- ‡ Length shown is as measured one way along wire path between unit and service panel for voltage drop not to exceed 2%.
- \*\* Time-Delay fuse.

FLA - Full Load Amps

LRA - Locked Rotor Amps

MCA - Minimum Circuit Amps

RLA - Rated Load Amps

**NOTE**: Control circuit is 24–V on all units and requires external power source. Copper wire must be used from service disconnect to unit. All motors/compressors contain internal overload protection.

Complies with 2007 requirements of ASHRAE Standards 90.1

### A-WEIGHTED SOUND POWER LEVEL (dBA)

Unit Size -	Standard		TYPICAL	OCTAVE BAN	ID SPECTRUM (	dBA without tone	e adjustment)	
Voltage, Series	Rating (dBA)	125	250	500	1000	2000	4000	8000
0018-B	76	52.5	59.0	65.5	70.5	64.5	59.0	54.5
0024-A	76	57.5	64.0	69.0	71.0	69.0	64.5	60.0
0030-A	76	55.0	63.5	68.0	69.5	67.0	63.5	58.5
0036-A	76	50.5	59.5	64.5	70.5	62.0	59.5	54.5
0042-A	78	52.5	62.0	66.0	73.5	68.0	62.0	55.5
0048-B	78	57.5	61.5	66.0	70.5	65.5	59.5	53.5
0049-A	78	51.5	62.0	67.5	73.5	69.0	64.5	62.0
0060-A	78	55.0	62.5	67.5	70.5	65.0	61.0	53.5
0061 – A	78	56.5	63.0	65.5	69.0	67.0	61.5	56.0

NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

### A-WEIGHTED SOUND POWER LEVEL (dBA) WITH SOUND SHIELD

Unit Size -	Standard		TYPICA	L OCTAVE BAI	ND SPECTRUM (	dBA without tone	adjustment)	
Voltage, Series	Rating (dBA)	125	250	500	1000	2000	4000	8000
0018-B	74	55.5	59.0	65.0	68.5	63.5	58.0	52.0
0024-A	75	58.0	64.0	69.0	70.5	68.5	64.5	59.5
0030-A	75	55.5	63.0	68.0	69.0	67.0	63.0	58.5
0036-A	74	51.5	58.5	62.0	65.0	61.0	58.0	52.0
0042-A	76	53.0	62.0	65.5	72.0	65.0	61.0	54.0
0048-B	76	58.5	61.5	66.0	69.0	64.0	58.5	51.0
0049-A	76	53.0	61.5	67.5	72.0	68.0	61.5	59.0
0060-A	75	56.5	62.5	66.5	68.0	63.0	59.5	51.5
0061 – A	75	57.0	63.0	65.5	67.0	65.5	59.0	52.5

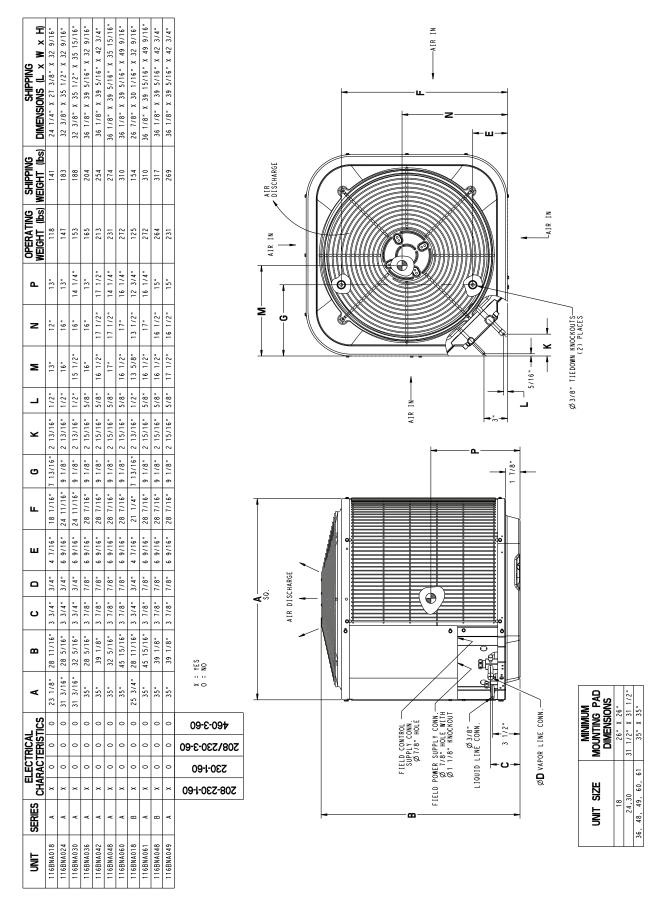
NOTE: Tested in accordance with AHRI Standard 270-08 (not listed in AHRI).

### CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

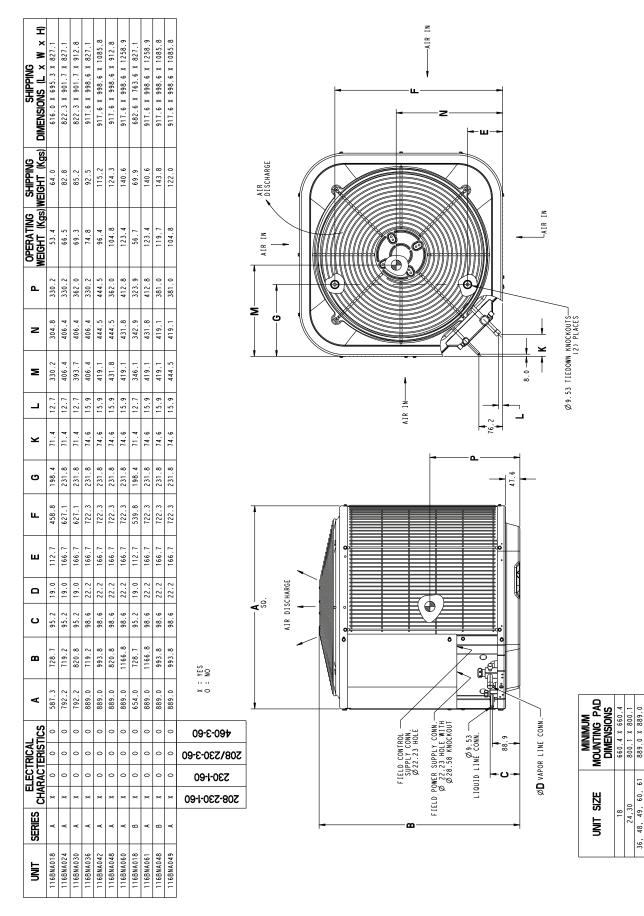
· ·	,
UNIT SIZE-VOLTAGE, SERIES	REQUIRED SUBCOOLING °F (°C)
018-B	10 (5.6)
024-A	10 (5.6)
030-A	10 (5.6)
036-A	10 (5.6)
042-A	9 (5.0)
048-B	10 (5.6)
049-A	8 (4.4)
060-A	9 (5.0)
061-A	9 (5.0)

<sup>†</sup> If wire is applied at ambient greater than 30°C, consult table 310–16 of the NEC (NFPA 70). The ampacity of non-metallic-sheathed cable (NM), trade name ROMEX, shall be that of 60°C conditions, per the NEC (NFPA 70) Article 334–80. If other than uncoated (no-plated), 60 or 75°C insulation, copper wire (solid wire for 10 AWG or smaller, stranded wire for larger than 10 AWG) is used, consult applicable tables of the NEC (NFPA 70).

### **DIMENSIONS - ENGLISH**



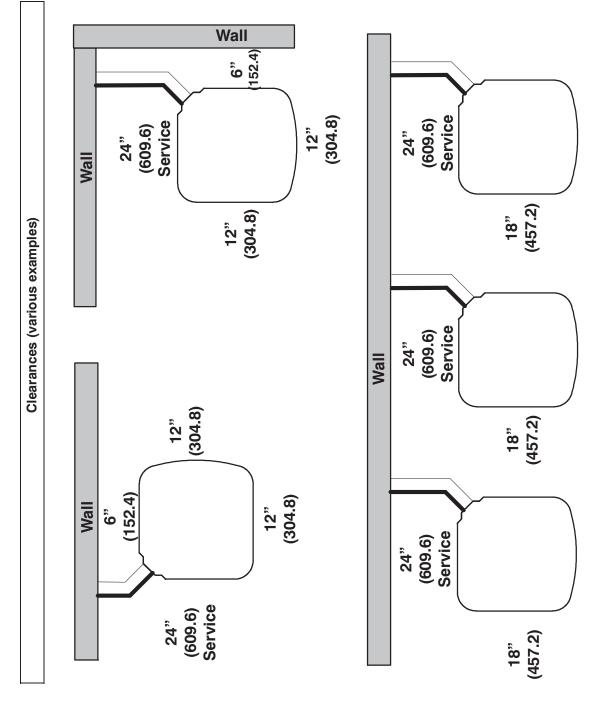
### **DIMENSIONS - SI**



19

24,30 36, 48, 49, 60,

### **CLEARANCES**



Note: Numbers in () = mm

IMPORTANT: When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.

### **TESTED AHRI COMBINATION RATINGS\***

NOTE: Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory www.ahridirectory.org Additional ratings and system combinations can be accessed via the Bryant database at: http://cactaxcredits.info/bryant-ratings/hp\_ratings\_srch.php

Equipment performance calculator can be accessed at: <a href="http://rpmobbry.wrightsoft.com/">http://rpmobbry.wrightsoft.com/</a>

Model Number	Indoor Coil Model Number	Furnace Model Number	Cooling Capacity	EER	SEER
116BNA018****B	CNPV*1917A**		18,000	12.0	14.5
116BNA024***A	CNPV*3117A**		23,600	12.0	14.5
116BNA030****A	CNPV*3117A**		28,600	12.0	14.5
116BNA036***A	CNPV*3717A**		34,400	12.0	14.5
116BNA042****A	CNPV*4324A**		41,500	12.0	14.5
116BNA048****B	CAP**6025A**		46,000	12.0	14.5
116BNA049***A	CAP**6025A**		48,000	11.5	14.0
116BNA060****A	CNPV*6124A**		56,000	12.0	14.5
116BNA061***A	CNPV*6124A**		59,500	12.0	14.5

\* AHRI = Air Conditioning, Heating & Refrigeration Institute

EER — SEER —

Energy Efficiency RatioSeasonal Energy Efficiency Ratio

NOTES:

- 1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
  2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.

  3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.

  4. Do not apply with capillary tube coils as performance and reliability are affected.

### DETAILED COOLING CAPACITIES#

This matrix   The matrix   T	000	EVADORATOR AIR							,					,						
From         Capachy Methy         Tool         Capachy Methy         Name         Name </th <th>֝֝֝֝֝֡֝֝֝֡֝֝֝</th> <th></th> <th></th> <th>75 (23.9)</th> <th></th> <th></th> <th>85 (29.4)</th> <th></th> <th></th> <th>95 (32)</th> <th></th> <th></th> <th>105 (40.6)</th> <th></th> <th></th> <th>115 (46.1)</th> <th></th> <th></th> <th>125 (51.7)</th> <th></th>	֝֝֝֝֝֡֝֝֝֡֝֝֝			75 (23.9)			85 (29.4)			95 (32)			105 (40.6)			115 (46.1)			125 (51.7)	
1	2	EWB	Capacit	y MBtuh†	Total	Capacit	y MBtuh†	Total	Capacit	/ MBtuh†	Total	Capacity	' MBtuh†	Total	Capacity	' MBtuh†	Total	Capacity	/ MBtuh†	Total
1	5	°F (°C)	Total	Sens	KW**	Total	\$ens‡	System KW**	Total	\$ens‡	KW**	Total	\$ens‡	System KW**	Total	Sens‡	System KW**	Total	‡suəS	KW**
1   1   1   1   1   1   1   1   1   1									18****B Ou	tdoor Section		1917A** Indo	or Section							
0 (17 cm) (17 cm) (18 cm) (1		72 (22.2)	21.52	10.39	1.18	20.55	10.05	1.32	19.48	89.6	1.48	18.35	9.29	1.65	17.15	8.88	1.84	15.88	8.46	2.06
Column   C		67 (19.4)	19.59	12.69	1.18	18.66	12.32	1.32	17.68	11.95	1.47	16.64	11.56	1.64	15.54	11.14	1.83	14.37	10.72	2.05
11.1   1.10   1	525	63 (17.2)#	18.14	12.20	1.18	17.28	11.84	1.32	16.37	11.47	1.47	15.40	11.07	1.63	14.37	10.66	1.82	13.27	10.22	2.04
This control   This collection   This collecti		62 (16.7)	17.80	14.92	1.18	16.97	14.56	1.31	16.08	14.18	1.47	15.17	13.78	1.63	14.30	14.30	1.82	13.42	13.42	2.04
Title   Tit		57 (13.9)	17.19	17.19	1.18	16.54	16.54	1.31	15.84	15.84	1.46	15.09	15.09	1.63	14.27	14.27	1.82	13.40	13.40	2.04
National		72 (22.2)	21.94	10.93	1.21	20.92	10.58	1.35	19.82	10.21	1.51	18.63	9.81	1.68	17.39	9.40	1.87	16.07	8.97	2.09
Sign   11.24   12.0		67 (19.4)	19.99	13.55	1.20	19.03	13.19	1.35	18.00	12.80	1.50	16.92	12.40	1.67	15.78	11.98	1.86	14.57	11.54	2.08
2	009	63 (17.2)#	18.55	13.02	1.20	17.64	12.65	1.34	16.68	12.26	1.49	15.68	11.86	1.66	14.60	11.44	1.85	13.47	10.99	2.07
Figure 1		62 (16.7)	18.25	16.11	1.20	17.39	15.72	1.34	16.55	16.55	1.49	15.74	15.74	1.66	14.87	14.87	1.85	13.93	13.93	2.07
This		57 (13.9)	17.99	17.99	1.20	17.28	17.28	1.34	16.53	16.53	1.49	15.72	15.72	1.66	14.85	14.85	1.85	13.91	13.91	2.07
Column   C		72 (22.2)	22.24	11.45	1.23	21.19	11.09	1.38	20.06	10.72	1.54	18.83	10.32	1.71	17.55	9.90	1.90	16.20	9.47	2.12
Sectionary   1886   1879   129   1791   1342   137   1612   137   1612   137   1512   152   1		67 (19.4)	20.29	14.38	1.23	19.30	14.01	1.37	18.24	13.62	1.53	17.13	13.22	1.70	15.95	12.79	1.89	14.72	12.34	2.10
Column   C	675	63 (17.2)#	18.85	13.79	1.23	17.91	13.42	1.37	16.92	13.03	1.52	15.88	12.61	1.69	14.78	12.18	1.88	13.63	11.73	2.10
Participa   18.66   18.66   18.66   12.2   17.90		62 (16.7)	18.68	18.68	1.23	17.93	17.93	1.37	17.12	17.12	1.52	16.26	16.26	1.69	15.33	15.33	1.88	14.35	14.35	2.10
EVACTOR AII         ECONDENSER ENTERING AIR TEMPERATURES * F C)         TIS (46.1)		57 (13.9)	18.66	18.66	1.23	17.90	17.90	1.37	17.09	17.09	1.52	16.24	16.24	1.69	15.31	15.31	1.88	14.33	14.33	2.10
Table   Tabl		ark acted								ONDENSER	ENTERING A	IR TEMPERA	TURES ° F (°	(0						
F/C (12.2)         Solution (12.2)         Capacity MBtuhf (12.2)         Capacity MBtuhf (12.2)         System (12.2)         Capacity MBtuhf (12.2)         Total (12.2)         System (12.2)         Capacity MBtuhf (12.2)         System (12.2	) L A A	חוא חסואיו		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)	
F C D         Total         Sensition         System         Total         Spiration         Total         Sensition         Sensition         Total         Sensition	i	EWB	Capacit	y MBtuh†	Total	Capacit	y MBtuh†	Total	Capacity	, MBtuh†	Total	Capacity	, MBtuh†	Total	Capacity	' MBtuh†	Total	Capacity	/ MBtuh†	Total
72 (22.2)         28.21         1.55         28.22         1.74         2.54         12.78         1.29         2.16         2.16         2.24         1.77         2.41         18.86         18.25         1.70         2.14         18.29         2.16         2.14         18.29         1.75         2.14         18.24         18.25         1.74         2.55         1.74         2.50         1.89         2.14         18.29         1.75         2.14         18.91         14.18         2.38         17.52         13.82           63 (17.2) 1         25.62         16.73         1.56         22.62         15.67         1.73         21.46         15.20         20.22         14.70         2.14         18.95         18.95         2.38         17.52         13.82           62 (16.7)         25.22         19.80         1.56         20.24         1.73         21.44         18.86         1.92         20.00         19.96         2.14         18.92         17.79         17.79         17.70         1.97         22.22         14.90         17.70         2.14         1.89         2.14         18.91         18.91         17.79         17.79         17.79         17.70         1.97         2.22         14.90 <th>2</th> <th>°F (°C)</th> <th>Total</th> <th>Sens</th> <th>System KW**</th> <th>Total</th> <th>Sens#</th> <th></th> <th>Total</th> <th>Sens‡</th> <th>System KW**</th> <th>Total</th> <th>Sens‡</th> <th>System KW**</th> <th>Total</th> <th>Sens‡</th> <th>System KW**</th> <th>Total</th> <th>Sens‡</th> <th>System KW**</th>	2	°F (°C)	Total	Sens	System KW**	Total	Sens#		Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**
72 (22.2)         28.21         13.70         1.55         24.44         16.55         17.74         25.54         12.79         12.79         21.65         11.77         24.42         16.25         17.34         18.59         12.79         12.50         11.77         24.44         16.52         17.34         16.58         12.94         16.75         12.44         16.52         17.34         16.58         13.97         14.10         2.56         14.70         24.44         16.52         18.34         17.29         18.92         18.94         18.92         18.92         18.94         17.79         17.79         17.79         17.79         17.79         17.70         17.70         18.92         <									24****A Ou	Idoor Section	With CNPV*	117A** Indo	or Section							
67 (19.4)         25.63         16.78         1.56         2.14         1.58         1.89         1.89         2.187         1.59         2.18         1.59         2.18         1.59         1.69         1.79		72 (22.2)	28.21	13.70	1.55	26.92	13.25		25.54	12.78		24.09	12.29	2.16	22.56	11.77	2.41	20.94	11.24	2.68
63 (17.2)H         23.72         16.13         1.55         1.567         1.73         21.46         16.20         1.92         20.22         14.70         214         18.96         14.70         214         18.96         17.99         17.99         17.99         17.92         17.82         18.82         18.82         18.82         18.82         18.82         18.82         18.82         18.82         18.82         1		67 (19.4)	25.63	16.78	1.55	24.44	16.32	1.73	23.19	15.85	1.93	21.87	15.36	2.15	20.47	14.84	2.39	18.98	14.29	2.67
62 (16.7)         23.32         19.80         1.55         22.25         19.34         1.73         21.14         18.86         1.92         20.00         19.96         2.14         18.95         18.92         18.95         18.95         17.82         17.79         17.79           57 (13.9)         22.68         1.56         21.84         1.73         20.93         20.93         1.996         1.996         2.14         18.92         18.92         18.92         18.92         17.79         17.79         17.79           72 (22.2)         22.68         22.68         1.59         1.73         1.996         2.90         1.247         2.42         17.79         17.79         17.79         1.996         2.29         1.696         2.14         1.627         2.42         1.77         1.89         1.996         2.90         1.247         2.42         1.77         1.98         1.996         2.18         1.927         1.44         1.77         1.81         2.08         1.67         1.996         2.08         1.676         1.84         1.77         1.81         2.08         1.676         2.18         1.96         2.08         1.676         1.84         1.779         1.84         1.84         1.679 <td>700</td> <td>63 (17.2)††</td> <td>23.72</td> <td>16.13</td> <td>1.55</td> <td>22.62</td> <td>15.67</td> <td>1.73</td> <td>21.46</td> <td>15.20</td> <td>1.92</td> <td>20.22</td> <td>14.70</td> <td>2.14</td> <td>18.91</td> <td>14.18</td> <td>2.38</td> <td>17.52</td> <td>13.62</td> <td>2.67</td>	700	63 (17.2)††	23.72	16.13	1.55	22.62	15.67	1.73	21.46	15.20	1.92	20.22	14.70	2.14	18.91	14.18	2.38	17.52	13.62	2.67
57 (13.9)         22.68         22.68         1.55         21.84         21.84         1.73         20.93         1.99         1.99         1.44         1.89         1.89         1.44         1.89         1.79         1.779         1.779         1.779           72 (22.2)         28.72         14.43         1.58         27.38         13.97         1.77         25.95         13.49         1.99         22.0         22.85         12.47         24.4         1.77         1.99         22.0         22.85         12.47         24.4         1.77         1.99         22.0         22.85         12.47         24.4         1.77         1.99         22.0         22.85         12.47         24.4         1.77         1.99         22.0         22.8         12.47         24.4         1.77         1.99         22.0         20.9         22.0         22.9         1.99         22.0         20.9         22.0         22.0         22.0         1.90         20.9		62 (16.7)	23.32	19.80	1.55	22.25	19.34	1.73	21.14	18.86	1.92	20.00	19.96	2.14	18.95	18.95	2.38	17.82	17.82	2.67
72 (22.2)         28.72         1.43         1.58         1.39         1.34         1.99         2.44         1.299         2.28         1.47         2.44         1.99         2.20         2.85         1.24         1.99         2.20         2.85         1.44         1.59         2.22         1.649         2.19         2.47         1.93         1.54         1.51         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.54         1.55         1.54		57 (13.9)	22.68	22.68	1.55	21.84	21.84	1.73	20.93	20.93	1.92	19.96	19.96	2.14	18.92	18.92	2.38	17.79	17.79	2.67
67 (19.4) 26.16   17.95   1.58   1.58   17.7   23.80   17.0   1.97   1.95   1.52   16.49   20.76   15.96   20.75   15.95   15.71   1.95		72 (22.2)	28.72	14.43	1.58	27.38	13.97	1.77	25.95	13.49	1.98	24.44	12.99	2.20	22.85	12.47	2.44	21.17	11.93	2.72
63 (17.2)H         24.23         17.22         1.58         16.75         1.96         20.58         15.76		67 (19.4)	26.16	17.95	1.58	24.91	17.49	1.77	23.60	17.00	1.97	22.22	16.49	2.19	20.76	15.96	2.43	19.23	15.41	2.71
62 (16.7)         23.91         21.38         1.58         22.74         1.77         21.85         21.85         1.96         20.81         20.81         1.96         19.69         19.69         19.69         19.49         18.46         18.46 <th< td=""><td>800</td><td>63 (17.2)#</td><td>24.23</td><td>17.22</td><td>1.58</td><td>23.08</td><td>16.75</td><td>1.77</td><td>21.86</td><td>16.27</td><td>1.96</td><td>20.58</td><td>15.76</td><td>2.18</td><td>19.21</td><td>15.22</td><td>2.42</td><td>17.78</td><td>14.66</td><td>2.70</td></th<>	800	63 (17.2)#	24.23	17.22	1.58	23.08	16.75	1.77	21.86	16.27	1.96	20.58	15.76	2.18	19.21	15.22	2.42	17.78	14.66	2.70
57 (13.9)         23.70         23.70         1.58         22.79         1.76         21.82         21.82         1.96         20.78         1.966         1.966         2.43         18.46 <th< td=""><td></td><td>62 (16.7)</td><td>23.91</td><td>21.38</td><td>1.58</td><td>22.85</td><td>22.74</td><td>1.77</td><td>21.85</td><td>21.85</td><td>1.96</td><td>20.81</td><td>20.81</td><td>2.18</td><td>19.69</td><td>19.69</td><td>2.42</td><td>18.49</td><td>18.49</td><td>2.71</td></th<>		62 (16.7)	23.91	21.38	1.58	22.85	22.74	1.77	21.85	21.85	1.96	20.81	20.81	2.18	19.69	19.69	2.42	18.49	18.49	2.71
72 (22.2)         29.09         15.12         1.62         2.72         1.67         1.81         2.62         2.46         13.67         2.24         2.36         13.67         2.48         13.67         2.24         2.30         13.67         2.48         13.67         2.24         2.24         2.24         17.59         2.22         2.47         17.59         2.24         17.59         17.59         18.03         18.11         2.30         18.11         2.01         2.24         17.59         17.59         18.00         18.11         2.01         2.24         17.59         17.59         18.00         22.14         17.59         16.75         2.24         17.59         16.75         2.45         17.59         17.59         17.59         17.59         17.59         17.59         17.59         17.59         17.59         17.50         17.50         17.50         17.50         22.56         22.64         16.74         21.48         <		57 (13.9)	23.70	23.70	1.58	22.79	22.79	1.76	21.82	21.82	1.96	20.78	20.78	2.18	19.66	19.66	2.43	18.46	18.46	2.71
67 (19.4) 26.54 19.08 1.62 25.25 18.60 1.81 23.90 18.11 2.01 22.48 17.59 22.2 20.98 17.05 20.28 20.98 17.05 20.98 17.05 24.00 17.05 20.29		72 (22.2)	29.09	15.12	1.62	27.72	14.67	1.81	26.23	14.18	2.02	24.68	13.67	2.24	23.05	13.15	2.48	21.32	12.60	2.76
63 (17.2)†† 24.61 18.27 1.62 23.62 13.62 17.79 1.80 22.16 17.30 2.00 20.84 16.78 2.22 19.45 16.23 20.29 20.2		67 (19.4)	26.54	19.08	1.62	25.25	18.60	1.81	23.90	18.11	2.01	22.48	17.59	2.22	20.98	17.05	2.47	19.42	16.48	2.75
24.60         24.60         1.62         23.62         23.62         1.80         22.58         22.08         21.48         21.48         2.22         20.29         20.29         2.47         19.02         19.02           24.56         24.56         24.56         2.00         21.45 <td>900</td> <td>63 (17.2)††</td> <td>24.61</td> <td>18.27</td> <td>1.62</td> <td>23.42</td> <td>17.79</td> <td>1.80</td> <td>22.16</td> <td>17.30</td> <td>2.00</td> <td>20.84</td> <td>16.78</td> <td>2.22</td> <td>19.45</td> <td>16.23</td> <td>2.46</td> <td>17.98</td> <td>15.65</td> <td>2.74</td>	900	63 (17.2)††	24.61	18.27	1.62	23.42	17.79	1.80	22.16	17.30	2.00	20.84	16.78	2.22	19.45	16.23	2.46	17.98	15.65	2.74
24.56         24.56         1.62         23.59         23.59         1.80         22.55         2.00         21.45         21.45         2.22         20.27         20.27         2.47         18.99         18.99		62 (16.7)	24.60	24.60	1.62	23.62	23.62	1.80	22.58	22.58	2.00	21.48	21.48	2.22	20.29	20.29	2.47	19.02	19.02	2.75
		57 (13.9)	24.56	24.56	1.62	23.59	23.59	1.80	22.55	22.55	2.00	21.45	21.45	2.22	20.27	20.27	2.47	18.99	18.99	2.75

0	alk activacents							٥	ONDENSER	CONDENSER ENTERING AIR TEMPERATURES ° F (° C)	4 TEMPERA	TURES ° F (°	(C)						
ב ב			75 (23.9)			85 (29.4)			(32)			105 (40.6)			115 (46.1)			125 (51.7)	
S	EWB	Capacit	Capacity MBtuh†	Total	Capacit	Capacity MBtuh†	Total	Capacity	Capacity MBtuh†	Total	Capacity MBtuh	MBtuh†	Total	Capacity MBtuh†	MBtuh†	Total	Capacity MBtuh	MBtuh	Total
Ē	°F (°C)	Total	Sens	System KW**	Total	Sens#	KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens	System KW**
							116BNA03	0**** Out	4030**** A Outdoor Section	With CNPV*3117A** Indoor Section	117A** Indo	pr Section							
	72 (22.2)	34.09	16.61	1.91	32.58	16.09	2.11	31.00	15.56	2.33	29.32	15.00	2.59	27.51	14.40	2.88	25.53	13.76	3.22
	67 (19.4)	30.99	20.47	1.92	29.61	19.95	2.12	28.16	19.41	2.34	26.61	18.84	2.59	24.93	18.23	2.88	23.10	17.56	3.22
875	63 (17.2)#	28.76	19.68	1.93	27.47	19.16	2.12	26.11	18.61	2.34	24.65	18.03	2.59	23.07	17.41	2.88	21.33	16.73	3.22
	62 (16.7)	28.31	24.28	1.93	27.08	23.74	2.12	25.80	23.16	2.34	24.56	24.56	2.59	23.28	23.28	2.88	21.87	21.87	3.21
	57 (13.9)	27.76	27.76	1.93	26.76	26.76	2.12	25.69	25.69	2.34	24.52	24.52	2.59	23.25	23.25	2.88	21.83	21.83	3.21
	72 (22.2)	34.67	17.49	1.96	33.09	16.96	2.15	31.45	16.42	2.38	29.71	15.86	2.63	27.83	15.25	2.93	25.79	14.60	3.26
	67 (19.4)	31.55	21.88	1.97	30.10	21.35	2.16	28.60	20.80	2.38	27.00	20.22	2.64	25.27	19.60	2.93	23.39	18.92	3.26
1000	63 (17.2)#	29.30	20.99	1.97	27.95	20.46	2.17	26.55	19.90	2.39	25.04	19.31	2.64	23.40	18.68	2.93	21.63	17.98	3.26
	62 (16.7)	29.03	28.77	1.97	27.89	27.89	2.16	26.74	26.74	2.39	25.50	25.50	2.64	24.14	24.14	2.93	22.64	22.64	3.26
	57 (13.9)	28.93	28.93	1.97	27.84	27.84	2.16	26.70	26.70	2.39	25.46	25.46	2.64	24.11	24.11	2.93	22.61	22.61	3.26
	72 (22.2)	35.09	18.33	2.00	33.45	17.80	2.20	31.76	17.25	2.42	29.97	16.67	2.68	28.04	16.06	2.97	25.96	15.41	3.31
	67 (19.4)	31.96	23.24	2.01	30.47	22.70	2.21	28.93	22.14	2.43	27.29	21.54	2.68	25.52	20.90	2.97	23.62	20.20	3.31
1125	63 (17.2)#	29.70	22.25	2.02	28.32	21.71	2.21	26.87	21.14	2.43	25.32	20.53	2.69	23.66	19.88	2.98	21.87	19.15	3.31
	62 (16.7)	29.93	29.93	2.02	28.78	28.78	2.21	27.57	27.57	2.43	26.26	26.26	2.68	24.83	24.83	2.97	23.26	23.26	3.31
	57 (13.9)	29.89	29.89	2.02	28.74	28.74	2.21	27.53	27.53	2.43	26.22	26.22	2.68	24.80	24.80	2.97	23.23	23.23	3.31
	and a comment							0	ONDENSER	CONDENSER ENTERING AIR TEMPERATURES ° F (° C)	3 TEMPERA	TURES ° F (°	(C)						
EVAP	EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)	
	983	Capacit	Capacity MBtuht	Total	Capacit	Capacity MBtuh+	Total	Capacity	Capacity MBtuh†	Total	Capacity MBtuh	MBtuht	Total	Capacity MBtuh	MBtuh	Total	Capacity MBtuh	MBtuht	Total
CFM	(0.)	Total	Senst	System KW**	Total	Sens	System KW**	Total	Sens	System KW**	Total	Senst	System KW**	Total	Senst	System KW**	Total	Senst	System KW**
								6**** A Out	036**** A Outdoor Section	€	717A** Indo	or Section							
	72 (22.2)	41.06	20.24	2.39	39.22	19.60		37.27	18.94		35.20	18.24	3.28	33.01	17.50	3.66	30.65	16.73	4.11
	67 (19.4)	37.33	24.93	2.37	35.65	24.28	2.63	33.87	23.61	2.93	31.96	22.90	3.26	29.95	22.15	3.65	27.79	21.36	4.09
1050	63 (17.2)#	34.65	23.97	2.36	33.08	23.32	2.62	31.40	22.64	2:92	29.62	21.92	3.25	27.73	21.17	3.64	25.71	20.37	4.09
	62 (16.7)	34.09	29.55	2.36	32.58	28.89	2.62	31.00	28.17	2.91	29.47	29.47	3.25	27.95	27.95	3.64	26.29	26.29	4.09
	57 (13.9)	33.38	33.38	2.35	32.16	32.16	2.62	30.85	30.85	2.91	29.43	29.43	3.25	27.91	27.91	3.64	26.25	26.25	4.09
	72 (22.2)	41.77	21.32	2.45	39.84	20.66	2.72	37.82	19.99	3.01	35.67	19.28	3.35	33.39	18.53	3.73	30.96	17.75	4.17
	67 (19.4)	38.02	26.65	2.43	36.25	25.99	2.70	34.40	25.30	2.99	32.44	24.58	3.32	30.35	23.82	3.71	28.13	23.01	4.15
1200	63 (17.2)#	35.31	25.57	2.42	33.66	24.91	2.69	31.93	24.22	2.98	30.09	23.48	3.31	28.13	22.71	3.70	26.05	21.89	4.15
	62 (16.7)	34.94	31.83	2.42	33.53	33.53	2.69	32.12	32.12	2.98	30.60	30.60	3.32	28.97	28.97	3.70	27.21	27.21	4.15
	57 (13.9)	34.80	34.80	2.42	33.47	33.47	2.68	32.07	32.07	2.98	30.55	30.55	3.32	28.93	28.93	3.70	27.17	27.17	4.15
	72 (22.2)	42.28	22.34	2.52	40.29	21.68	2.78	38.19	20.99	3.08	35.98	20.27	3.41	33.65	19.52	3.79	31.16	18.72	4.23
	67 (19.4)	38.51	28.29	2.50	36.70	27.62	2.76	34.80	26.93	3.05	32.78	26.19	3.39	30.65	25.41	3.77	28.39	24.57	4.22
1350	63 (17.2)††	35.80	27.10	2.48	34.11	26.43	2.75	32.32	25.72	3.04	30.43	24.97	3.38	28.44	24.18	3.76	26.32	23.32	4.21
	62 (16.7)	36.01	36.01	2.48	34.61	34.61	2.75	33.12	33.12	3.05	31.51	31.51	3.38	29.80	29.80	3.77	27.94	27.94	4.21
	57 (13.9)	35.96	35.96	2.48	34.56	34.56	2.75	33.08	33.08	3.04	31.47	31.47	3.38	29.76	29.76	3.77	27.91	27.91	4.21
	1																		

See notes on pg. 17

									ONDENSER	CONDENSER ENTERING AIR TEMPERATURES ° F (C)	3 TEMPERA	TURES ° F (°	O						
EVAP	EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (32)			105 (40.6)			115 (46.1)			125 (51.7)	
N	EWB	Capacit	Capacity MBtuh†	Total	Capacit	Capacity MBtuh†	Total	Capacity	Capacity MBtuh†	Total	Capacity MBtuh†	MBtuh†	Total	Capacity MBtuh†	MBtuh†	Total	Capacity MBtuh	, MBtuh†	Total
5	°F (°C)	Total	Sens	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**
							ž	\042***A Outdoor Sec	door Section	With CNPV*43	*4324A** Indo	oor Section							
	72 (22.2)	49.58	24.05	2.77	47.31	23.28	3.07	44.88	22.46	3.42	42.30	21.59	3.80	39.58	20.70	4.23	36.71	19.77	4.70
	67 (19.4)	45.17	29.64	2.75	43.10	28.86	3.05	40.90	28.04	3.38	38.55	27.18	3.76	36.07	26.27	4.19	33.47	25.33	4.66
1225	63 (17.2)#	41.97	28.52	2.74	40.06	27.75	3.03	38.02	26.93	3.36	35.83	26.06	3.74	33.53	25.16	4.17	31.10	24.21	4.64
	62 (16.7)	41.32	35.16	2.74	39.49	34.36	3.03	37.56	33.49	3.36	35.65	35.65	3.74	33.78	33.78	4.17	31.76	31.76	4.64
	57 (13.9)	40.45	40.45	2.73	38.96	38.96	3.03	37.34	37.34	3.36	35.60	35.60	3.74	33.73	33.73	4.17	31.72	31.72	4.64
	72 (22.2)	50.40	25.29	2.85	48.02	24.50	3.15	45.48	23.66	3.49	42.82	22.79	3.87	39.99	21.88	4.30	37.02	20.94	4.77
	67 (19.4)	45.95	31.63	2.82	43.80	30.84	3.12	41.50	30.00	3.46	39.07	29.12	3.84	36.51	28.20	4.26	33.83	27.23	4.74
1400	63 (17.2)#	42.74	30.38	2.81	40.75	29.59	3.10	38.61	28.75	3.44	36.36	27.87	3.82	33.97	26.94	4.24	31.47	25.96	4.71
	62 (16.7)	42.31	37.80	2.81	40.55	40.55	3.10	38.82	38.82	3.44	36.94	36.94	3.82	34.93	34.93	4.25	32.78	32.78	4.72
	57 (13.9)	42.10	42.10	2.81	40.50	40.50	3.10	38.76	38.76	3.44	36.89	36.89	3.82	34.89	34.89	4.25	32.74	32.74	4.72
	72 (22.2)	50.98	26.46	2:92	48.52	25.66	3.22	45.91	24.82	3.56	43.16	23.93	3.95	40.25	23.01	4.37	37.22	22.06	4.85
	67 (19.4)	46.53	33.54	2.90	44.31	32.73	3.19	41.95	31.88	3.53	39.45	30.98	3.91	36.83	30.02	4.34	34.11	29.02	4.81
1575	63 (17.2)#	43.31	32.15	2.88	41.25	31.35	3.17	39.06	30.49	3.51	36.74	29.58	3.89	34.30	28.62	4.31	31.77	27.60	4.78
	62 (16.7)	43.52	43.52	2.88	41.82	41.82	3.18	39.96	39.96	3.52	37.98	37.98	3.90	35.86	35.86	4.33	33.58	33.58	4.80
	57 (13.9)	43.46	43.46	2.88	41.76	41.76	3.18	39.91	39.91	3.52	37.93	37.93	3.90	35.81	35.81	4.33	33.55	33.55	4.80
200	alk action								ONDENSER	CONDENSER ENTERING AIR TEMPERATURES ° F (° C)	3 TEMPERA	TURES ° F (°	(0)						
A A A	EVAPORATOR AIR		75 (23.9)			85 (29.4)			95 (32)			105 (40.6)			115 (46.1)			125 (51.7)	
2	EWB	Capacit	Capacity MBtuh†	Total	Capacit	Capacity MBtuh†	Total	Capacity	Capacity MBtuh†	Total	Capacity MBtuh	MBtuh	Total	Capacity MBtuh	MBtuh†	Total	Capacity	Capacity MBtuh†	Total
5	°F (°C)	Total	Sens	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	Sens	System KW**	Total	Sens‡	System KW**	Total	Sens	System KW**
							_	048****B O	utdoor Sectio	IA048****B Outdoor Section With CAP**6024* Indoor Section	5024* Indoo	r Section							
	72 (22.2)	55.71	27.90	2.67	52.91	26.91		50.01	25.90	3.52	47.00	24.87	3.95	43.85	23.81	4.41	40.51	22.69	4.89
	67 (19.4)	50.48	34.32	2.83	47.96	33.34	3.22	45.37	32.35	3.61	42.67	31.33	4.01	39.85	30.28	4.44	36.84	29.16	4.91
1400	63 (17.2)††	46.73	32.94	2.93	44.44	31.98	3.29	42.06	31.01	3.66	39.59	30.00	4.05	36.99	28.96	4.46	34.22	27.85	4.92
	62 (16.7)	45.93	40.65	2.94	43.75	39.65	3.30	41.55	41.29	3.66	39.51	39.51	4.04	37.39	37.39	4.46	35.08	35.08	4.91
	57 (13.9)	45.05	45.05	2.96	43.28	43.28	3.31	41.43	41.43	3.66	39.45	39.45	4.04	37.34	37.34	4.46	35.03	35.03	4.91
	72 (22.2)	56.66	29.33	2.72	53.70	28.32	3.15	50.67	27.29	3.59	47.54	26.24	4.03	44.26	25.15	4.49	40.81	24.02	4.98
	67 (19.4)	51.35	36.61	2.88	48.71	35.62	3.28	46.00	34.60	3.68	43.20	33.56	4.09	40.27	32.47	4.53	37.17	31.32	5.00
1600	63 (17.2)††	47.56	35.07	2.99	45.15	34.09	3.36	42.68	33.09	3.74	40.11	32.06	4.13	37.41	30.98	4.55	34.56	29.83	5.01
	62 (16.7)	47.06	46.71	3.00	45.06	45.06	3:36	43.04	43.04	3.73	40.91	40.91	4.12	38.62	38.62	4.54	36.15	36.15	5.00
	57 (13.9)	46.92	46.92	3.00	44.99	44.99	3:36	42.98	42.98	3.73	40.85	40.85	4.12	38.57	38.57	4.54	36.11	36.11	5.00
	72 (22.2)	57.33	30.68	2.77	54.27	29.65	3.22	51.13	28.60	3.66	47.88	27.53	4.11	44.52	26.43	4.57	40.96	25.28	5.07
	67 (19.4)	51.99	38.81	2.94	49.25	37.79	3.35	46.46	36.75	3.76	43.57	35.67	4.17	40.57	34.55	4.62	37.43	33.33	5.09
1800	63 (17.2)††	48.17	37.10	3.06	45.68	36.10	3.44	43.11	35.07	3.82	40.47	34.01	4.21	37.72	32.88	4.64	34.82	31.65	5.10
	62 (16.7)	48.51	48.51	3.04	46.44	46.44	3.41	44.29	44.29	3.79	42.02	42.02	4.19	39.60	39.60	4.62	36.98	36.98	5.09
	57 (13.9)	48.45	48.45	3.04	46.38	46.38	3.42	44.24	44.24	3.79	41.97	41.97	4.19	39.55	39.55	4.62	36.94	36.94	5.09
See note	See notes on pa. 17																		

See notes on pg. 17

	EVAPO	EVAPORATOR AIR																		
FF CM  Series				75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)	
FF C   Total   Sent   Chica	2	EWB	Capacit	y MBtuh†	Total	Capacit	ty MBtuh†	Total	Capacit	y MBtuh†	Total	Capacity	, MBtuh†	Total	Capacity	, MBtuh†	Total	Capacity	/ MBtuh†	Total
	Ē	°F (°C)	Total	Sens	System KW**	Total	Sens‡	System KW**	Total	Sens#	System KW**	Total	Sens#	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**
									149****A OL	utdoor Sectio		6024A* Indo	pr Section							
1		72 (22.2)	57.54	29.08	3.21	54.91	28.10	3.66	52.22	27.11	4.12	49.43	26.10	4.59	46.46	25.03	5.09	43.18	23.88	5.66
1		67 (19.4)	52.60	35.60	3.24	50.19	34.61	3.67	47.73	33.62	4.10	45.16	32.59	4.55	42.41	31.50	5.06	39.40	30.33	5.62
11   11   11   11   11   11   11   1	1400	63 (17.2)#	49.11	34.57	3.26	46.86	33.58	3.67	44.56	32.57	4.08	42.14	31.53	4.53	39.56	30.44	5.03	36.72	29.25	5.60
11   11   11   11   11   11   11   1		62 (16.7)	48.14	42.09	3.26	45.97	41.09	3.66	43.75	40.07	4.08	41.45	38.99	4.52	39.06	39.06	5.02	36.78	36.78	5.60
This column		57 (13.9)	46.53	46.53	3.26	44.81	44.81	3.66	43.02	43.02	4.07	41.13	41.13	4.52	39.07	39.07	5.02	36.78	36.78	5.60
California   Cal		72 (22.2)	58.62	30.51	3.27	55.85	29.51	3.73	53.04	28.50	4.19	50.14	27.47	4.66	47.06	26.39	5.17	43.67	25.22	5.74
California   Cal		67 (19.4)	53.60	37.89	3.30	51.08	36.88	3.74	48.50	35.86	4.17	45.83	34.82	4.63	42.99	33.72	5.13	39.88	32.52	5.70
2	1600	63 (17.2)#	50.08	36.71	3.32	47.72	35.70	3.74	45.31	34.68	4.16	42.81	33.63	4.61	40.14	32.51	5.11	37.20	31.30	5.68
This column		62 (16.7)	49.23	45.22	3.32	46.99	44.16	3.74	44.76	44.49	4.16	42.69	42.69	4.61	40.49	40.49	5.11	38.05	38.05	5.68
This		57 (13.9)	48.50	48.50	3.33	46.64	46.64	3.74	44.72	44.72	4.16	42.69	42.69	4.61	40.50	40.50	5.11	38.05	38.05	5.68
Chicago   Control   Cont		72 (22.2)	59.40	31.86	3.33	56.54	30.84	3.80	53.64	29.82	4.26	50.65	28.78	4.74	47.47	27.68	5.25	43.99	26.50	5.81
Section   Sec		67 (19.4)	54.34	40.07	3.36	51.73	39.04	3.81	49.07	38.01	4.25	46.33	36.96	4.71	43.41	35.84	5.21	40.23	34.61	5.78
Column   C	1800	63 (17.2)#	50.79	38.76	3.39	48.35	37.73	3.81	45.87	36.70	4.23	43.30	35.63	4.69	40.56	34.49	5.19	37.56	33.24	5.76
Particle		62 (16.7)	50.22	49.72	3.39	48.15	48.15	3.81	46.11	46.11	4.24	43.96	43.96	4.69	41.64	41.64	5.19	39.07	39.07	5.77
EVB         Copacity MBuht System         Copacity MBu		57 (13.9)	50.13	50.13	3.39	48.15	48.15	3.81	46.11	46.11	4.24	43.96	43.96	4.69	41.64	41.64	5.19	39.07	39.07	5.77
Table   Tabl		CIA COTAC								CONDENSER	ENTERING A	IR TEMPER	TURES ° F (	(0)						
EV/B         Capacity MBuht         System         TOtal         Senst         KW***         Total         Senst         Capacity MBuht         Senst         KW***         Total         Senst         Capacity MBuht         Capacity MBuht         Senst         KW***         Total         Senst         Capacity MBuht	, L A	חוא חסואחס		75 (23.9)			85 (29.4)			95 (35)			105 (40.6)			115 (46.1)			125 (51.7)	
*** (**)         Total         Sensition         System         Total         Sensition         Total         Sensition         Total         Sensition         Total         Sensition         Total         Sensition         Total         Sensition         Sensition         Auxiliary         Total         Sensition         Sensition         Auxiliary         Sensition         Auxiliary         Sensition         Auxiliary         Sensition         Auxiliary         Sensition         Auxiliary         Auxilia	i	EWB	Capacit	y MBtuh†	Total	Capacit	y MBtuh†	Total	Capacity	y MBtuh†	Total	Capacity	, MBtuh†	Total	Capacity	MBtuh↑	Total	Capacity	/ MBtuh†	Total
T/2 (22.2)         Sisse         3.61         All the box and th	Ē	°F (°C)	Total	Sens	System KW**	Total	Sens‡	System KW**	Total	\$ens‡	System KW**	Total	Sens‡	System KW**	Total	Sens‡	System KW**	Total	\$ens‡	System KW**
72 (22.2)         67.62         33.62         3.61         64.17         32.46         4.00         60.58         41.71         61.70         30.03         4.86         52.77         28.73         53.70         48.49         27.70           67 (19.4)         61.61         41.91         3.60         55.52         40.77         53.70         55.22         40.70         55.22         43.60         56.70         53.40         53.70         43.90         57.70         48.70         53.70         44.30         57.70         48.70         57.70         48.70         53.70         44.30         55.70         48.70         57.70         48.70         57.80         48.80         48.80         48.80         48.80         48.10         46.10         53.40         48.70         48.70         57.70         48.70         57.70         48.80         48.80         48.80         48.10         48.10         48.70         48.70         57.70         48.70         57.70         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80         48.80 <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>-</th><th>60**** A Our</th><th>tdoor Section</th><th></th><th>124A** Inde</th><th>or Section</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>								-	60**** A Our	tdoor Section		124A** Inde	or Section							
67 (19.4)         61 (16.1)         61 (16.1)         61 (16.1)         67 (19.4)         61 (16.1)         61 (16.1)         60 (16.1)         60 (16.1)         60 (16.1)         60 (16.1)         61 (16.1)         61 (16.1)         60 (16.1)         61 (16.1)         60 (16.1)         61 (16.1) <t< td=""><th></th><td>72 (22.2)</td><td>67.62</td><td>33.62</td><td>3.61</td><td>64.17</td><td>32.46</td><td></td><td>60.58</td><td>31.27</td><td></td><td>56.79</td><td>30.03</td><td>4.86</td><td>52.77</td><td>28.73</td><td>5.37</td><td>48.49</td><td>27.36</td><td>5.94</td></t<>		72 (22.2)	67.62	33.62	3.61	64.17	32.46		60.58	31.27		56.79	30.03	4.86	52.77	28.73	5.37	48.49	27.36	5.94
63 (17.2)H         57.26         40.25         3.60         35.40         35.40         39.14         3.96         4.36         48.36         48.36         48.36         48.36         48.30         48.30         48.90         <		67 (19.4)	61.61	41.91	3.60	58.55	40.77	3.97	55.32	39.59	4.38	51.90	38.34	4.83	48.28	37.03	5.33	44.39	35.62	5.90
62 (16.7)         56.64         50.02         3.59         54.07         51.61         51.61         48.99         48.99         48.19	1750	63 (17.2)††	57.26	40.25	3.60	54.46	39.14	3.96	51.50	37.96	4.36	48.36	36.73	4.80	45.00	35.42	5.31	41.41	34.01	5.88
57 (13.9)         56.19         56.19         56.95         53.95         53.96         51.53         41.50         48.93         48.11         48.09         48.09         46.09         5.22         42.99         42.99         42.99         48.71         48.04         56.10         57.11         48.07         48.04         56.10         42.99         45.11         49.06         55.14         49.07         56.00         42.40         47.11         49.06         56.10         42.40         47.11         49.06         56.10         57.11         48.93         48.74         49.07         54.74         48.74         48.74         48.74         48.70         48.74         48.74         48.70         54.74         48.74		62 (16.7)	56.64	50.02	3.59	54.07	53.77	3.96	51.61	51.61	4.36	48.99	48.99	4.81	46.15	46.15	5.32	43.04	43.04	5.90
72 (22.2)         68.56         35.38         3.71         64.97         34.21         4.10         61.24         32.99         4.51         4.11         4.96         53.16         30.40         5.47         48.74         31.73         48.74         30.76         5.31         48.74         48.74         39.76         5.47         48.77         48.74         48.74         39.76         5.47         48.74         48.74         39.76         5.49         48.74         39.76         5.49         48.74         39.76         5.49         48.74         39.76         5.49         48.74         39.76         5.49         48.74         39.76         5.49         48.74         48.74         39.76         5.49         48.74         48.74         39.76         5.49         48.74		57 (13.9)	56.19	56.19	3.59	53.95	53.95	3.96	51.53	51.53	4.36	48.93	48.93	4.81	46.09	46.09	5.32	42.99	42.99	5.90
67 (19.4) 62.54 44.78 3.70 59.34 43.61 4.07 56.00 42.40 4.48 52.47 41.12 4.93 48.74 59.76 54.39 44.80 58.24 41.72 4.06 52.18 40.57 44.6 48.83 39.29 49.0 45.49 37.93 54.1 41.84 36.44 36.44 36.44 36.47 56.24 41.77 4.06 52.18 40.5 53.8 58.8 58.8 58.8 58.8 58.8 58.8 58		72 (22.2)	68.55	35.38	3.71	64.97	34.21	4.10	61.24	32.99	4.51	57.31	31.73	4.96	53.16	30.40	5.47	48.76	29.01	6.04
63 (17.2)H         58.17         42.02         3.69         4.90         4.90         4.5.40         47.00         4.00         52.18         4.00         52.18         4.00 <th></th> <td>67 (19.4)</td> <td>62.54</td> <td>44.78</td> <td>3.70</td> <td>59.34</td> <td>43.61</td> <td>4.07</td> <td>26.00</td> <td>42.40</td> <td>4.48</td> <td>52.47</td> <td>41.12</td> <td>4.93</td> <td>48.74</td> <td>39.76</td> <td>5.43</td> <td>44.80</td> <td>38.28</td> <td>6.01</td>		67 (19.4)	62.54	44.78	3.70	59.34	43.61	4.07	26.00	42.40	4.48	52.47	41.12	4.93	48.74	39.76	5.43	44.80	38.28	6.01
62 (16.7)         56.36         56.96         56.96         56.96         56.96         56.96         56.96         56.96         4.06         53.34         4.47         56.54         56.54         47.51         47.51         47.51         47.51         47.92         47.91         47.91         47.91         47.91         47.92         47.45         47.45         47.45         47.45         47.45         47.45         47.41         47.14         44.14         <	2000	63 (17.2)#	58.17	42.92	3.69	55.24	41.77	4.06	52.18	40.57	4.46	48.93	39.29	4.90	45.49	37.93	5.41	41.84	36.44	5.99
57 (13.9)         58.30         58.80         55.88         4.06         53.28         4.46         50.48         50.49         40.10         50.70         40.12         <		62 (16.7)	58.38	58.38	3.69	55.95	55.95	4.06	53.34	53.34	4.47	50.54	50.54	4.92	47.51	47.51	5.42	44.19	44.19	0.00
72 (22.2)         69.20         37.05         3.81         65.50         36.85         4.20         61.65         34.62         4.61         57.62         33.34         5.06         53.39         32.00         5.57         48.89         30.59         30.59         4.77         4.61         57.62         33.34         5.06         53.39         32.00         5.57         48.87         4.77         4.68         4.57         4.69         4.77         4.69         4.77         4.69         4.77         4.169         5.01         48.57         48.57         48.57         48.57         48.57         48.57         48.57         48.57         48.50         45.09         45.09         45.09         45.01         45.09         45.00         48.57         48.57         48.57         48.57         48.57         48.57         48.50         45.09         45.09         45.09         45.09         45.09         45.00		57 (13.9)	58.30	58.30	3.69	55.88	55.88	4.06	53.28	53.28	4.46	50.48	50.48	4.92	47.45	47.45	5.42	44.14	44.14	0.00
67 (19.4) 66.21 47.52 3.80 59.93 46.32 4.17 56.49 45.07 4.58 52.89 43.73 5.03 49.12 42.99 5.53 45.19 44.77 4.16 52.68 43.02 45.71 51.71 56.49 45.72 41.69 50.10 60.10 3.79 57.51 57.51 41.6 57.44 57.4 57.18 51.71 51.71 50.02 48.57 48.57 57.51 57.44 57.44 57.48 57.48 57.18 51.71 51.71 50.02 48.52 48.52 55.3 45.04		72 (22.2)	69.20	37.05	3.81	65.50	35.85	4.20	61.65	34.62	4.61	57.62	33.34	5.06	53.39	32.00	5.57	48.89	30.59	6.14
63 (17.2)†† 58.84 45.45 3.79 55.83 44.27 4.16 52.68 43.02 4.55 51.71 51.72 50.10 60.10 3.79 57.51 57.51 57.44 57.4 54.58 45.78 51.71 51.71 50.2 48.57 48.57 55.3 48.09 45.09 45.09 57.11 50.03 50.03 3.79 57.44 57.44 4.16 54.68 54.68 4.57 51.71 51.71 50.2 48.52 48.52 55.3 45.04 45.04 45.04 57.41 54.58 54.68 54.58 51.71 51.71 50.0 48.52 48.52 55.3 45.04 45.04 45.04 57.04		67 (19.4)	63.21	47.52	3.80	59.93	46.32	4.17	56.49	45.07	4.58	52.89	43.73	5.03	49.12	42.29	5.53	45.19	44.77	6.11
60.10 60.10 3.79 57.51 57.51 4.16 54.74 54.74 4.57 54.77 51.77 5.02 48.57 48.57 55.3 48.09 45.09 60.03 3.79 57.44 57.44 4.16 54.88 54.88 54.68 4.57 51.71 51.71 5.02 48.52 48.52 55.3 48.04 45.04 45.04	2250	63 (17.2)#	58.84	45.45	3.79	55.83	44.27	4.16	52.68	43.02	4.56	49.37	41.69	5.01	45.89	40.23	5.51	42.31	42.31	60.9
60.03         3.79         57.44         57.16         54.68         4.57         51.71         51.71         5.02         48.52         48.52         5.53         45.04         45.04         45.04		62 (16.7)	60.10	60.10	3.79	57.51	57.51	4.16	54.74	54.74	4.57	51.77	51.77	5.02	48.57	48.57	5.53	45.09	45.09	6.11
		57 (13.9)	60.03	60.03	3.79	57.44	57.44	4.16	54.68	54.68	4.57	51.71	51.71	5.02	48.52	48.52	5.53	45.04	45.04	6.11

		Total	KW**		7.25	7.18	7.15	7.15	7.37	7.30	7.28	7.28	7.48	7.41	7.41	7.40
	1.7)															
	125 (51.7)	Capacity MBtuh†	\$ens‡		28.89	37.23	45.35	45.29	30.60	40.00	46.69	46.64	32.24	42.59	47.74	47.69
		Capaci	Total		51.84	47.43	45.35	45.29	52.22	47.88	46.69	46.64	52.43	48.25	47.74	47.69
		Total	KW**		6.31	6.24	6.19	6.19	6.43	6.35	6.32	6.32	6.54	6.47	6.45	6.45
	115 (46.1)	Capacity MBtuh†	Sens‡		30.35	38.69	48.08	48.01	32.08	41.51	49.62	49.56	33.73	44.17	50.85	50.79
		Capacity	Total		55.84	51.03	48.08	48.01	56.36	51.60	49.62	49.56	26.68	52.01	50.85	50.79
(၁		Total	KW**		5.50	5.42	5.37	5.37	5.61	5.54	5.50	5.50	5.72	5.65	5.62	5.62
TURES °F (°	105 (40.6)	Capacity MBtuh†	Sens‡	door Section	31.72	40.05	50.45	50.37	33.47	42.90	52.18	52.12	35.14	45.61	53.58	53.52
R TEMPERA		Capacity	Total	1A**+TDR Ir	59.44	54.27	50.45	50.37	60.12	54.96	52.18	52.12	60.55	55.46	53.58	53.52
CONDENSER ENTERING AIR TEMPERATURES $^\circ$ F $(^\circ$ C)		Total	KW**	:1****A Outdoor Section With CNPV*6124A**+TDR Indoor Section	4.80	4.72	4.67	4.67	4.91	4.83	4.79	4.79	5.01	4.94	4.91	4.91
ONDENSER	95 (35)	MBtuh†	Sens‡	or Section W	33.02	41.32	49.40	52.43	34.78	44.20	54.43	54.35	36.47	46.94	55.99	55.93
0		Capacity MBtuh†	Total	***A Outdoo	62.70	57.18	25.67	52.43	03.50	28.00	54.43	54.35	90'49	28.58	66'99	55.93
		Total	KW**	116BNA061*	4.19	4.12	4.07	4.06	4.29	4.22	4.18	4.17	4.39	4.32	4.29	4.29
	85 (29.4)	MBtuh†	Sens‡		34.24	42.52	99.09	54.23	36.03	45.42	56.40	56.32	37.73	48.19	58.12	58.04
		Capacity MBtuh†	Total		65.62	59.80	54.89	54.23	66.58	60.75	56.40	56.32	67.25	61.43	58.12	58.04
		Total	KW**		3.65	3.59	3.54	3.53	3.75	3.69	3.64	3.64	3.85	3.79	3.75	3.75
	75 (23.9)	MBtuh†	Sens		35.40	43.65	51.79	55.79	37.22	46.57	55.64	58.04	38.93	49.36	59.97	59.89
		Capacity MBtuh†	Total		68.26	62.16	56.95	55.79	69.37	63.22	58.30	58.04	70.16	64.02	29.97	59.89
alv activacativa		EWB	°F (°C)		72 (22.2)	67 (19.4)	62 (16.7)	57 (13.9)	72 (22.2)	67 (19.4)	62 (16.7)	57 (13.9)	72 (22.2)	67 (19.4)	62 (16.7)	57 (13.9)
EVABOR		CEM	5			1750	3			0000	2007			i c	0622	

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

\$ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree above 80°F (27°C), and 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C), and 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C), and 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C), and 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C), and 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per same elevation per AHRI standard 210/240–2008. If additional tubing length and/or indoor unit is located above outdoor unit is slight variation in capacity may occur.

\*\*System kw is total of indoor unit kilowatts.\*\*

\*\*A System kw is total of indoor unit kilowatts.\*\*

\*\*A That stanging door condition (75°F edb/53°F ewb). All other indoor air temperatures are at 80°F edb.

\*\*No Entering Wet Bulb

\*\*BUB That is a sent and the pequired data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

### **CONDENSER ONLY RATINGS**

SST				CONDENSE	R ENTERING A	IR TEMPERATU	RES °F (°C)		
°F (°C)		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
				116BNA	018****B				
30	TCG	15.70	14.90	14.10	13.20	12.30	11.30	10.20	9.20
(=1.11)	SDT	66.60	76.20	85.80	95.30	104.80	114.30	123.70	133.10
(,	KW	0.75	0.87	0.99	1.12	1.26	1.41	1.60	1.81
35	TCG	17.50	16.60	15.70	14.70	13.70	12.60	11.50	10.30
(1.67)	SDT	67.80	77.30	86.80	96.30	105.70	115.10	124.40	133.80
, ,	KW	0.75	0.87	0.99	1.12	1.26	1.42	1.60	1.81
40	TCG	19.40	18.40	17.40	16.30	15.20	14.00	12.80	11.50
(4.44)	SDT	69.00	78.50	87.90	97.30	106.60	115.90	125.20	134.50
	KW	0.74	0.87	0.99	1.12	1.26	1.42	1.60	1.81
45	TCG	21.50	20.30	19.20	18.00	16.70	15.50	14.10	12.80
(7.22)	SDT	70.40	79.70	89.00	98.30	107.60	116.90	126.10	135.30
	KW	0.74	0.86	0.99	1.13	1.27	1.43	1.61	1.82
50	TCG	23.60	22.40	21.10	19.70	18.40	17.00	15.60	14.10
(10.0)	SDT	71.60	80.90	90.10	99.40	108.60	117.80	127.00	136.20
	KW	0.73	0.86	1.00	1.13	1.28	1.44	1.62	1.82
55	TCG	25.90	24.50	23.10	21.60	20.10	18.60	17.10	15.50
(12.78)	SDT	73.00	82.10	91.30	100.50	109.70	118.80	128.00	137.10
	KW	0.73	0.86	1.00	1.14 <b>)24***A</b>	1.29	1.45	1.63	1.84
	TCG	20.30	19.40	18.30	17.20	16.10	14.80	13.60	12.20
30	SDT	66.10	75.80	85.30	94.90	104.40	114.00	123.40	132.80
(-1.11)	KW	1.00	1.15	1.30	1.47	1.65	1.85	2.09	2.36
	TCG	22.60	21.40	20.30	19.10	17.80	16.50	15.10	13.60
35	SDT	67.20	76.80	86.30	95.80	105.30	114.70	124.10	133.50
(1.67)	KW	0.99	1.14	1.30	1.47	1.65	1.86	2.09	2.36
	TCG	24.90	23.70	22.40	21.00	19.60	18.20	16.70	15.10
40	SDT	68.40	77.90	87.30	96.70	106.10	115.50	124.80	134.10
(4.44)	KW	0.98	1.14	1.30	1.47	1.66	1.86	2.09	2.36
	TCG	27.40	26.00	24.60	23.10	21.60	20.10	18.40	16.70
45	SDT	69.60	79.00	88.30	97.70	107.00	116.30	125.60	134.90
(7.22)	KW	0.97	1.14	1.30	1.48	1.66	1.87	2.10	2.37
	TCG	30.10	28.60	27.00	25.40	23.70	22.00	20.20	18.40
50	SDT	70.80	80.10	89.40	98.70	107.90	117.20	126.40	135.60
(10.0)	KW	0.96	1.13	1.30	1.48	1.67	1.88	2.11	2.37
	TCG	33.00	31.30	29.50	27.70	25.90	24.10	22.10	20.20
55 (10.78)	SDT	72.10	81.30	90.50	99.70	108.90	118.10	127.30	136.40
(12.78)	KW	0.95	1.13	1.31	1.49	1.68	1.89	2.12	2.39
				116BNA	030****A				
30	TCG	24.90	23.50	22.20	20.80	19.40	17.90	16.20	14.40
(=1.11)	SDT	68.10	77.50	87.00	96.40	105.80	115.10	124.40	133.60
(,	KW	1.27	1.43	1.60	1.78	1.99	2.23	2.50	2.81
35	TCG	27.50	26.00	24.50	23.10	21.50	19.90	18.10	16.20
(1.67)	SDT	69.40	78.70	88.10	97.40	106.70	116.00	125.30	134.40
()	KW	1.28	1.44	1.61	1.79	2.00	2.24	2.51	2.82
40	TCG	30.30	28.60	27.10	25.50	23.80	22.00	20.10	18.10
(4.44)	SDT	70.70	79.90	89.20	98.50	107.70	117.00	126.20	135.30
` '	KW	1.29	1.44	1.61	1.80	2.01	2.25	2.52	2.83
45	TCG	33.30	31.50	29.80	28.00	26.20	24.30	22.30	20.10
(7.22)	SDT	72.00	81.20	90.40	99.60	108.80	118.00	127.20	136.30
	KW	1.29	1.44	1.61	1.80	2.01	2.26	2.53	2.85
50	TCG	36.50	34.50	32.60	30.70	28.80	26.70	24.50	22.20
(10.0)	SDT	73.50	82.50	91.70	100.80	110.00	119.20	128.20	137.20
	KW	1.29	1.44	1.61	1.80	2.02	2.26	2.54	2.86
55	TCG	39.90	37.80	35.70	33.60	31.50	29.30	26.90	24.40
(12.78)	SDT	75.00	84.00	93.00	102.10	111.20	120.30	129.30	138.20
` '	KW	1.29	1.44	1.61	1.80	2.02	2.27	2.54	2.86

See notes on page 20

### CONDENSER ONLY RATINGS CONTINUED

SST				CONDENSE	R ENTERING AI				
°F (°C)		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.67)
					036***A				
30	TCG	31.50	29.90	28.30	26.60	24.80	22.90	21.00	18.90
(-1.11)	SDT	68.90	78.20	87.50	96.80	106.20	115.50	124.90	134.20
	KW	1.50	1.73	1.96	2.21	2.50	2.82	3.21	3.66
35	TCG SDT	34.80	33.00	31.20 88.60	29.40	27.40	25.40	23.30	21.10
(1.67)	KW	70.10 1.50	79.30 1.73	1.97	97.90 2.22	107.20 2.51	116.50	125.80 3.21	135.00 3.66
	TCG	38.30	36.40	34.40	32.40	30.30	2.83 28.10	25.80	23.40
40	SDT	71.40	80.60	89.80	99.00	108.20	117.40	126.70	135.90
(4.44)	KW	1.51	1.74	1.98	2.24	2.52	2.85	3.22	3.66
	TCG	42.10	40.00	37.80	35.60	33.30	30.90	28.40	25.80
45	SDT	72.80	81.90	91.00	100.20	109.40	118.50	127.70	136.80
(7.22)	KW	1.52	1.75	1.99	2.25	2.54	2.86	3.24	3.67
	TCG	46.20	43.90	41.50	39.00	36.50	33.90	31.20	28.40
50 (10.0)	SDT	74.40	83.30	92.40	101.50	110.50	119.60	128.70	137.70
(10.0)	KW	1.53	1.77	2.01	2.27	2.56	2.88	3.25	3.68
55	TCG	50.50	47.90	45.30	42.70	39.90	37.10	34.20	31.10
(12.78)	SDT	76.00	84.90	93.80	102.80	111.80	120.80	129.80	138.70
(	KW	1.55	1.79	2.04	2.30	2.58	2.91	3.28	3.70
					042***A				
30	TCG	37.90	36.20	34.30	32.30	30.10	27.90	25.50	23.00
(-1.11)	SDT	69.80	79.20	88.70	98.10	107.40	116.70	125.90	135.10
	KW	1.83	2.03	2.26	2.54	2.86	3.22	3.63	4.09
35	TCG	41.90	40.00	37.90	35.70	33.30	30.80	28.30	25.60
(1.67)	SDT	71.20	80.60	89.90	99.20	108.40	117.70	126.80	136.00
	KW	1.84	2.04	2.28	2.56	2.88	3.24	3.65	4.10
40	TCG SDT	46.10	44.00	41.70	39.20 100.40	36.70	34.00	31.20	28.30
(4.44)	KW	72.70 1.85	81.90 2.05	91.20 2.30	2.58	109.60 2.90	118.70 3.26	127.80 3.67	136.90 4.13
	TCG	50.70	48.30	45.80	43.10	40.20	37.30	34.30	31.10
45	SDT	74.20	83.30	92.50	101.60	110.80	119.80	128.90	137.90
(7.22)	KW	1.86	2.07	2.32	2.60	2.92	3.29	3.70	4.15
	TCG	55.50	52.90	50.10	47.10	44.00	40.80	37.50	34.10
50	SDT	75.80	84.80	93.90	103.00	112.00	121.00	130.00	138.90
(10.0)	KW	1.87	2.09	2.34	2.63	2.95	3.32	3.73	4.19
	TCG	60.70	57.70	54.60	51.30	47.90	44.40	40.80	37.10
55 (12.78)	SDT	77.40	86.40	95.40	104.40	113.40	122.30	131.20	140.00
(12.70)	KW	1.89	2.11	2.36	2.66	2.99	3.36	3.77	4.22
				116BNA	048****B				
30	TCG	42.80	40.60	38.30	36.00	33.60	31.10	28.50	25.80
(-1.11)	SDT	67.80	77.20	86.60	96.00	105.40	114.70	124.00	133.30
	KW	2.00	2.29	2.58	2.87	3.17	3.51	3.90	4.35
35	TCG	47.40	44.80	42.30	39.70	37.10	34.40	31.60	28.60
(1.67)	SDT	69.00	78.30	87.70	97.00	106.30	115.60	124.80	134.10
	KW	1.93	2.25	2.56	2.87	3.19	3.53	3.92	4.36
40	TCG SDT	52.30	49.50	46.60	43.80	40.90	37.90	34.90	31.60
(4.44)	KW	70.40	79.60 2.18	88.80 2.52	98.00 2.85	107.20 3.19	116.50 3.55	125.70 3.94	134.80 4.38
	TCG	1.82 57.80	54.60	51.40	48.20	45.00	41.70	38.30	34.80
45	SDT	71.80	80.80	90.00	99.10	108.30	117.40	126.60	135.70
(7.22)	KW	1.68	2.07	2.45	2.81	3.17	3.55	3.95	4.40
	TCG	63.70	60.10	56.50	52.90	49.40	45.70	42.00	38.10
50	SDT	73.20	82.20	91.30	100.30	109.40	118.50	127.50	136.50
(10.0)	KW	1.49	1.93	2.34	2.74	3.13	3.53	3.95	4.41
	TCG	70.10	66.00	62.00	58.00	54.10	50.00	45.90	41.60
55	SDT	74.70	83.70	92.60	101.60	110.60	119.60	128.50	137.40
(12.78)									

See notes on page 20

### CONDENSER ONLY RATINGS CONTINUED

SST	·	CONDENSER ENTERING AIR TEMPERATURES ° F (° C)							
°F (°C)		55 (12.78)	65 (18.33)	75 (23.89)	85 (29.44)	95 (35.0)	105 (40.56)	115 (46.11)	125 (51.6
				116BNA	049****A				
30 (-1.11)	TCG	45.00	42.40	39.90	37.40	34.90	32.30	29.50	26.40
	SDT	70.30	79.50	88.90	98.20	107.60	116.90	126.20	135.40
	KW	2.04	2.41	2.75	3.08	3.44	3.84	4.32	4.89
35 (1.67)	TCG	49.80	46.80	44.00	41.20	38.50	35.60	32.60	29.30
	SDT	71.70	80.90	90.10	99.40	108.70	118.00	127.20	136.30
	KW	1.99	2.39	2.75	3.10	3.47	3.87	4.34	4.90
40 (4.44)	TCG	54.90	51.50	48.40	45.30	42.20	39.10	35.80	32.30
	SDT	73.20	82.40	91.50	100.70	109.90	119.00	128.20	137.20
	KW	1.93	2.36	2.75	3.12	3.50	3.91	4.38	4.92
45 (7.22)	TCG	60.40	56.60	53.00	49.60	46.20	42.80	39.30	35.50
	SDT	74.80	83.90	92.90	102.00	111.10	120.20	129.20	138.10
	KW	1.86	2.33	2.75	3.14	3.53	3.95	4.41	4.94
50 (10.0)	TCG	66.20	62.00	58.00	54.20	50.50	46.70	42.90	38.70
	SDT	76.40	85.50	94.50	103.40	112.40	121.40	130.30	139.10
	KW	1.78	2.28	2.73	3.15	3.56	3.99	4.45	4.98
55 (12.78)	TCG	72.40	67.70	63.20	59.10	55.00	50.90	46.70	42.10
	SDT	78.20	87.10	96.10	104.90	113.80	122.60	131.40	140.10
	KW	1.68	2.23	2.71	3.16	3.59	4.02	4.49	5.01
	<b>TOO</b>	10.00	47.70	1	060***A				
30 (-1.11)	TCG	49.90	47.50	45.10	42.40	39.60	36.70	33.50	30.20
	SDT	70.90	80.40	89.80	99.20	108.50	117.80	127.00	136.3
	KW	2.31	2.60	2.90	3.24	3.61	4.05	4.56	5.17
35 (1.67)	TCG	55.30	52.60	49.80	46.90	43.90	40.70	37.30	33.80
	SDT	72.50	81.80	91.20	100.50	109.70	118.90	128.10	137.3
	KW	2.31	2.61	2.93	3.27	3.65	4.08	4.59	5.19
40 (4.44)	TCG	61.00	58.00	54.90	51.70	48.40	45.00	41.40	37.60
	SDT	74.10	83.40	92.60	101.80	111.00	120.10	129.20	138.3
	KW	2.31	2.63	2.95	3.29	3.68	4.12	4.63	5.22
45 (7.22)	TCG	67.20	63.80	60.30	56.90	53.30	49.60	45.70	41.70
	SDT	75.80	84.90	94.10	103.20	112.30	121.40	130.40	139.4
	KW	2.31	2.64	2.97	3.32	3.71	4.15	4.66	5.25
50 (10.0)	TCG	73.70	70.00	66.20	62.40	58.50	54.50	50.40	46.10
	SDT	77.60	86.60	95.70	104.70	113.70	122.70	131.60	140.5
	KW	2.31	2.65	2.99	3.35	3.75	4.19	4.70	5.28
55 (12.78)	TCG	80.80	76.60	72.40	68.30	64.00	59.80	55.30	50.70
	SDT KW	79.50	88.40	97.30 3.02	106.20	115.20	124.00	132.90	141.6
	KVV	2.31	2.66		3.39 <b>061****A</b>	3.79	4.24	4.74	5.32
	TCG	47.40	46.20	1		41.50	20.20	26.90	22.00
30 (-1.11)	TCG	47.40	46.30	45.00	43.40	41.50	39.30	36.80	33.80
	SDT KW	70.70 1.95	80.00 2.35	89.20 2.79	98.50 3.30	107.70 3.90	116.90	126.00 5.45	135.10
	TCG	52.30		49.60	47.90	45.90	4.61 43.40	40.70	6.46 37.40
35 (1.67)	SDT	72.20	51.10 81.40	90.60	99.70	108.90	118.00	127.00	136.0
	KW	+	2.38	ł	3.34	3.94	4.65	5.49	
	TCG	1.98	56.20	2.82 54.60		50.40	47.80	44.80	6.49 41.20
40 (4.44)	SDT	57.60 73.90	82.90	92.00	52.70 101.00	110.10	119.10	128.10	137.0
	KW	2.01		l	•	-			
45 (7.22)	TCG	63.20	2.41 61.70	2.86 59.90	3.38 57.80	3.99 55.30	4.70 52.40	5.54 49.00	6.53 45.20
	SDT	75.60	84.50	93.50	102.50	111.40	120.40	129.20	138.10
	KW	+		-		<b>+</b>	1		
50 (10.0)	TCG	2.05	2.45 67.50	2.91 65.50	3.43 63.20	4.04	4.75 57.20	5.59	6.58 49.40
	SDT	69.20	67.50	65.50		60.40	57.20	53.50	
	KW	77.40	86.20 2.50	95.10	104.00	112.80	121.70	130.40 5.65	139.10
		2.09		2.96	3.49	4.10 65.70	4.82		6.64
55 (12.78)	TCG SDT	75.60	73.70	71.40	68.80	65.70	62.20	58.20	53.60
	501	79.30	88.00	96.80	105.60	114.30	123.00	131.70	140.30

<sup>\*</sup> AHRI listing applies only to systems shown in Combination Ratings table.

**KW** - Outdoor Unit Kilowatts Only.

SDT - Saturated Temperature Leaving Compressor (°F)

SST - Saturated Temperature Entering Compressor (° F/° C)

TCG - Gross Cooling Capacity (1000 Btuh)

### GUIDE SPECIFICATIONS GENERAL

### **System Description**

Outdoor-mounted, air-cooled, split-system air conditioner unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

### **Quality Assurance**

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL-us approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils will be leak tested at 150 psig and pressure tested at 450 psig.
- Unit constructed in ISO9001 approved facility.

### Delivery, Storage, and Handling

 Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

### Warranty (for inclusion by specifying engineer)

U.S. and Canada only.

### **PRODUCTS**

### **Equipment**

Factory assembled, single piece, air-cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge Puron® (R-410A), and special features required prior to field start-up.

### **Unit Cabinet**

 Unit cabinet will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

### AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER 116B 1-1/2 TO 5 NOMINAL TONS

### **Fans**

- Condenser fan will be direct-drive propeller type, discharging air upward.
- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

### Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

### Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

### Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of Puron® (R-410A) refrigerant, and compressor oil.
- Unit will be equipped with filter drier for Puron refrigerant.

### **Operating Characteristics**

- The capacity of the unit will meet or exceed

  Btuh at a suction temperature of \_\_\_\_\_ °F/°C. The
  power consumption at full load will not exceed

  kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of \_\_\_\_\_\_\_
   Btuh or greater at conditions of \_\_\_\_\_\_\_ CFM entering air temperature at the evaporator at \_\_\_\_\_\_ °F/°C wet bulb and \_\_\_\_\_\_ °F/°C dry bulb, and air entering the unit at \_\_\_\_\_\_ °F/°C.
- The system will have a SEER of \_\_\_\_\_ Btuh/watt or greater at DOE conditions.

### **Electrical Requirements**

- Nominal unit electrical characteristics will be \_\_\_\_\_\_ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of \_\_\_\_\_\_ v to \_\_\_\_\_\_ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

### **Special Features**

 Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

### SYSTEM DESIGN SUMMARY

- 1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
- 2. Minimum outdoor operating air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
- 3. Maximum outdoor operating air temperature is 125°F (51.7°C).
- 4. For reliable operation, unit should be level in all horizontal planes.
- 5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or 35 ft (10.7 m) vertical differential, consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
- 6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
- 7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
- 8. Do not apply capillary tube indoor coils to these units.
- 9. Factory-supplied filter drier must be installed.

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